



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

KML Windows, Inc.
23 Buchanan Court
London, Ontario, Canada N5Z 4P9

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Wood Slash Glazed Wood Fixed Window-Impact.

APPROVAL DOCUMENT: Drawing No.1226A, titled "Aluminum Clad Wood Slash Glazed Wood Fixed - Impact Windows", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/13/03, signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 00-1030.06 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by Theodore Berman, P.E.



NOA No 03-0625.04
Expiration Date: September 20, 2006
Approval Date: October 16, 2003
Page 1

KML Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

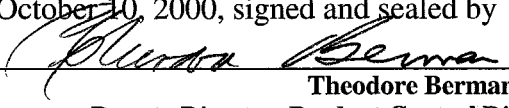
1. Manufacturer's die drawings and sections.
2. Drawing No. **1226A**, titled "Aluminum Clad Wood Slash Glazed Wood Fixed - Impact Windows", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/13/03, signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI 02-35024.02**, dated 5/28/03, signed and sealed by Steven Urich, P.E.

Submitted under NOA# 00-1030.06

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of a wood fixed window, prepared by Intertek Testing Services, Test Report No. **ITS-J99022770-231-03**, dated October 9, 2000, signed and sealed by Douglas Keith Tucker, P.E.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a wood fixed window, prepared by Intertek Testing Services, Test Report No. **ITS-J99022770-231-04**, dated October 9, 2000, signed and sealed by Douglas Keith Tucker, P.E.
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of aluminum clad wood operable casement windows of different shapes, prepared by Intertek Testing Services, Inc., Report No. **ITS-J990225770-231-05**, dated October 10, 2000, signed and sealed by Douglas Keith Tucker, P.E.


Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0625.04
Expiration Date: September 20, 2006
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KML Windows, Inc.

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4. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with installation diagram of aluminum clad wood operable casement windows of different shapes, prepared by Intertek Testing Services Inc., Test Report No. **J99022770-231-06**, dated October 11, 2000, signed and sealed by Douglas Keith Tucker, P.E
Addendum letter dated March 20, 2001, signed and sealed by Douglas Keith Tucker, P.E
(#3 & #4 are for reference only, to qualify the side-by-side configuration)

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-98 and structural analysis, dated 5/22/03, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

Submitted under NOA# 00-1030.06

1. Anchor Calculations and structural analysis prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 08/23/00, signed and sealed by Warren W. Schaefer, P.E.

D. MATERIAL CERTIFICATIONS

Submitted under NOA# 00-1030.06

1. Notice of Acceptance No. **00-0524.06** issued to Nebula Glass International Inc. for "Glasslam Safety-Plus Laminated Glass" dated 9/21/00, expiring on 9/9/03.

E. QUALITY ASSURANCE

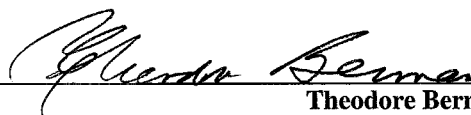
1. Miami Dade County Building Code Compliance.

F. STATEMENTS

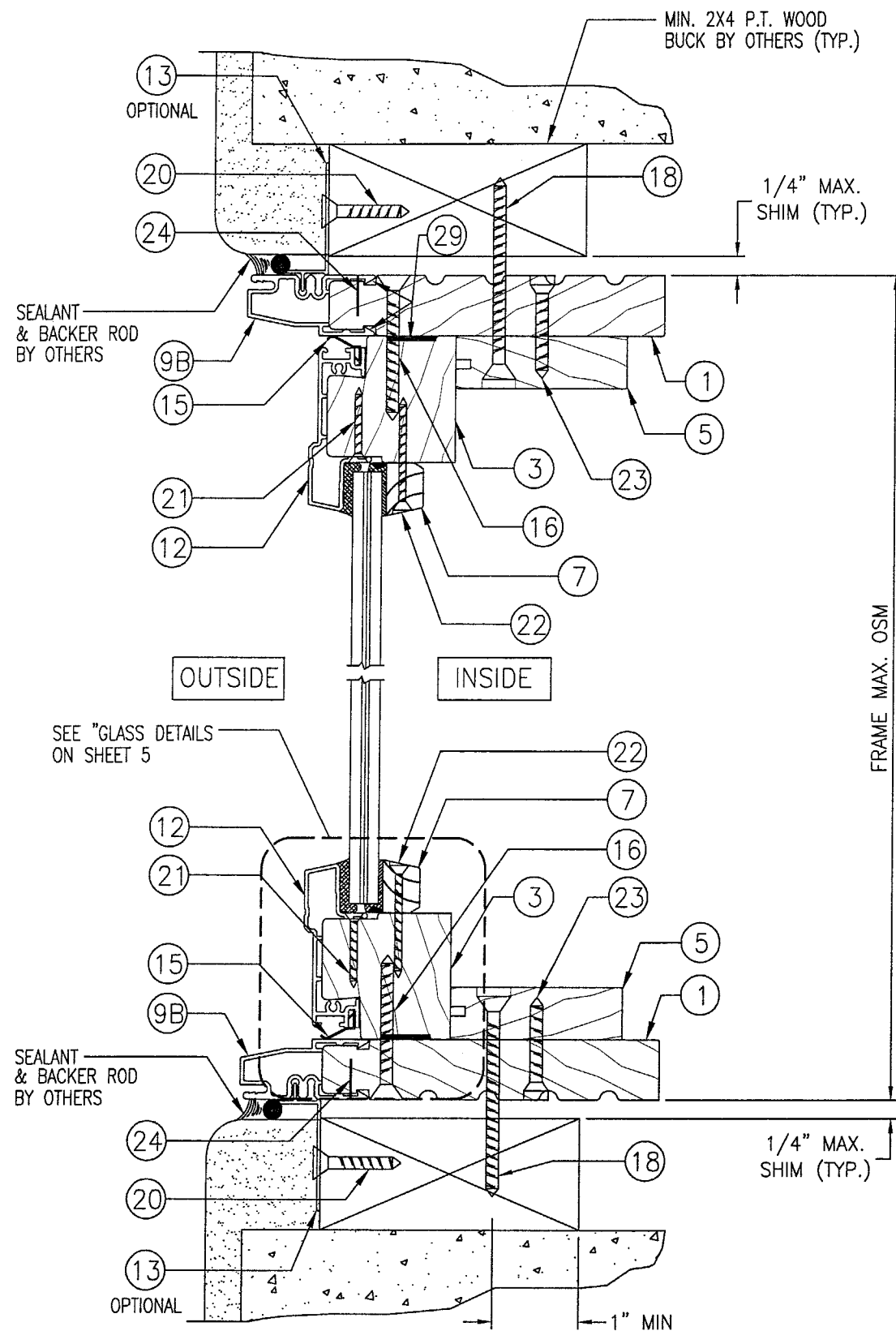
1. Laboratory compliance letter issued by Architectural Testing, Inc., Test Report No. **ATI 02-35024.02**, dated 5/28/03, signed and sealed by Steven Urich, P.E.

G. OTHER

1. Notice of Acceptance No. **00-1030.06**, issued to KML Window, Inc., Aluminum Clad Wood Slash Glazed Wood Fixed Window, approved on 9/20/01 and expiring on 9/20/06.



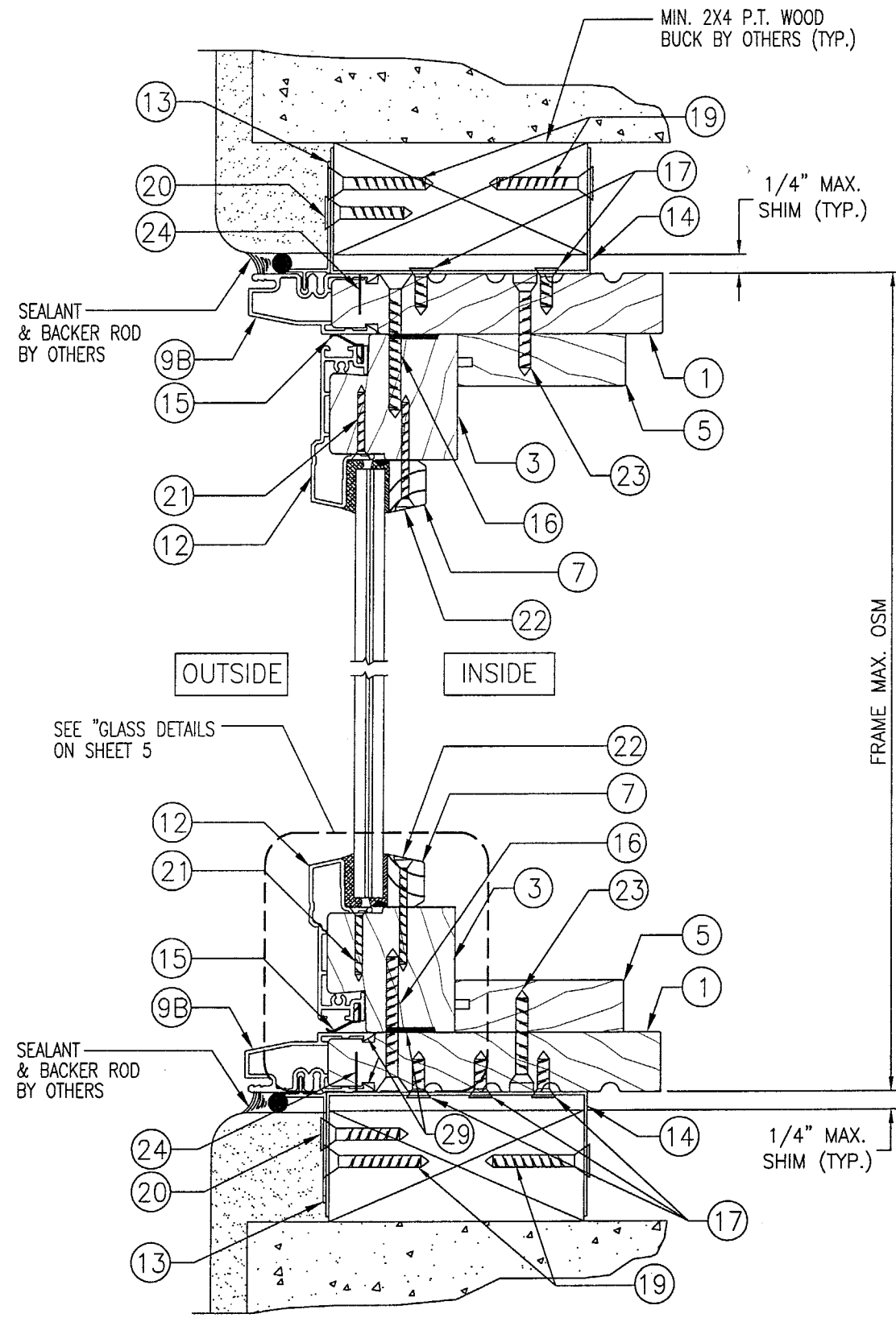
Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0625.04
Expiration Date: September 20, 2006
Approval Date: October 16, 2003



SECTION

SCALE: HALF FULL SIZE
(NOTE: HORIZONTAL SECTION IS THE SAME)

SHEAR SCREW
INSTALLATION



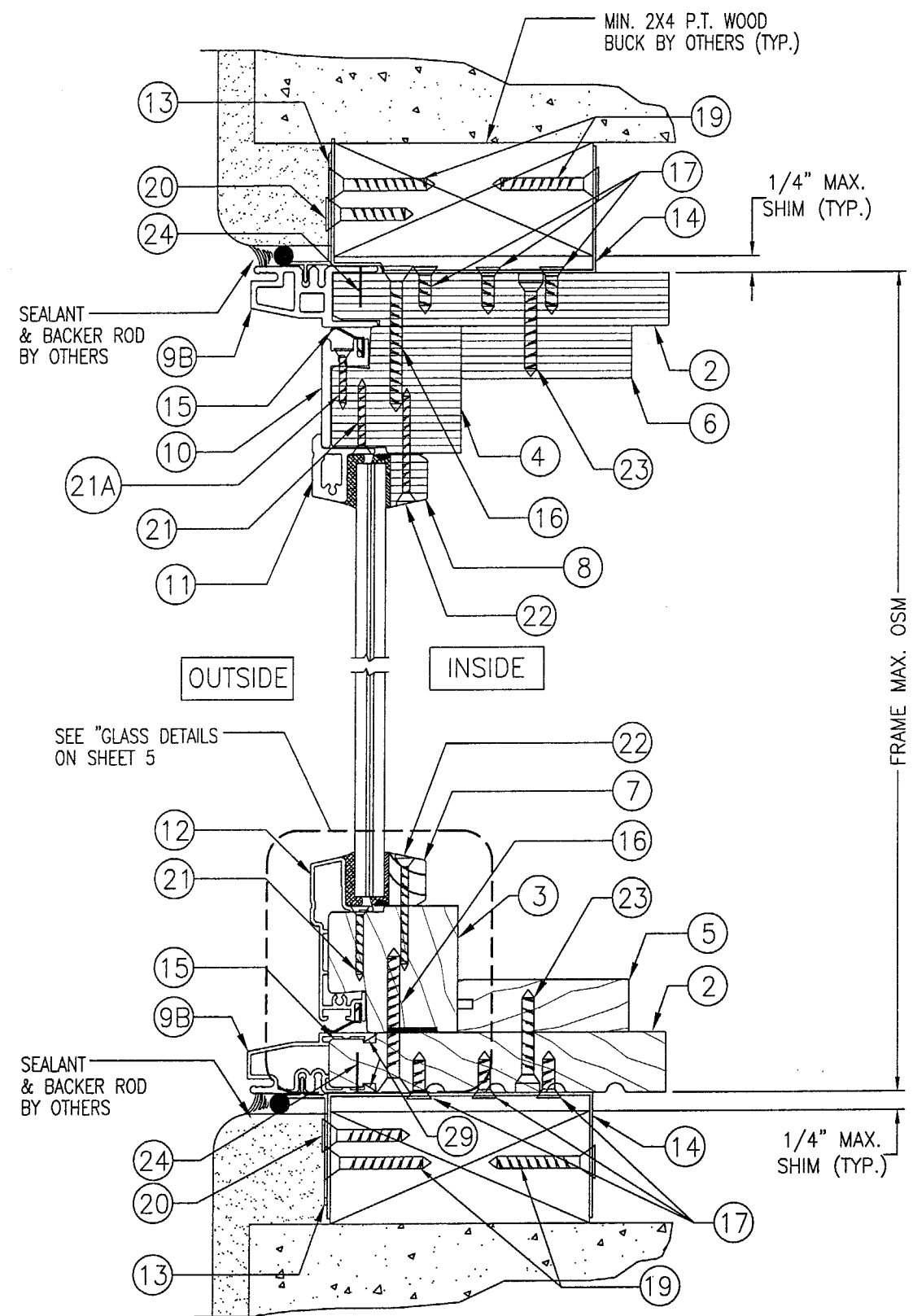
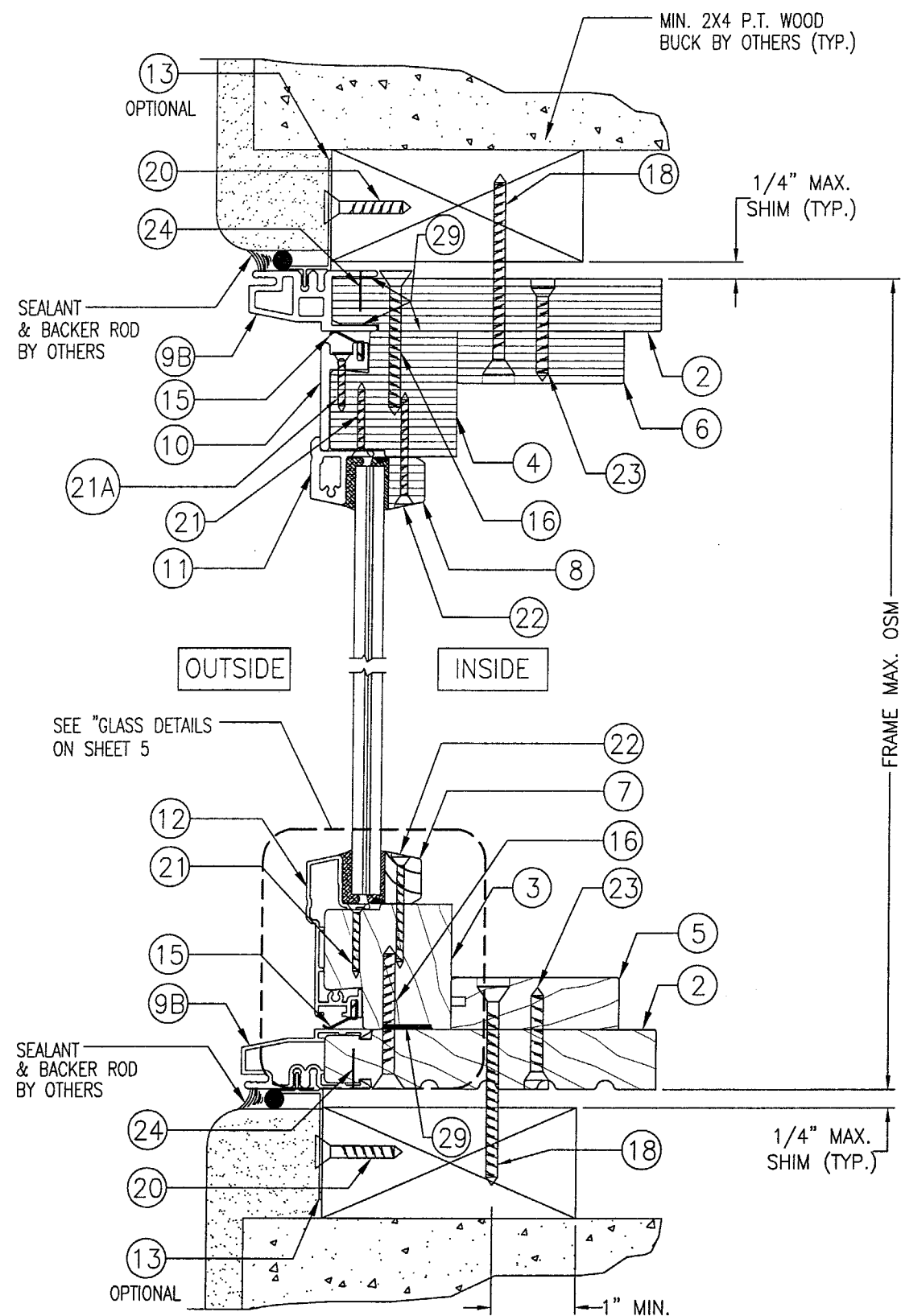
SECTION

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(NOTE: HORIZONTAL SECTION IS THE SAME)

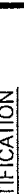
CLIP
INSTALLATION

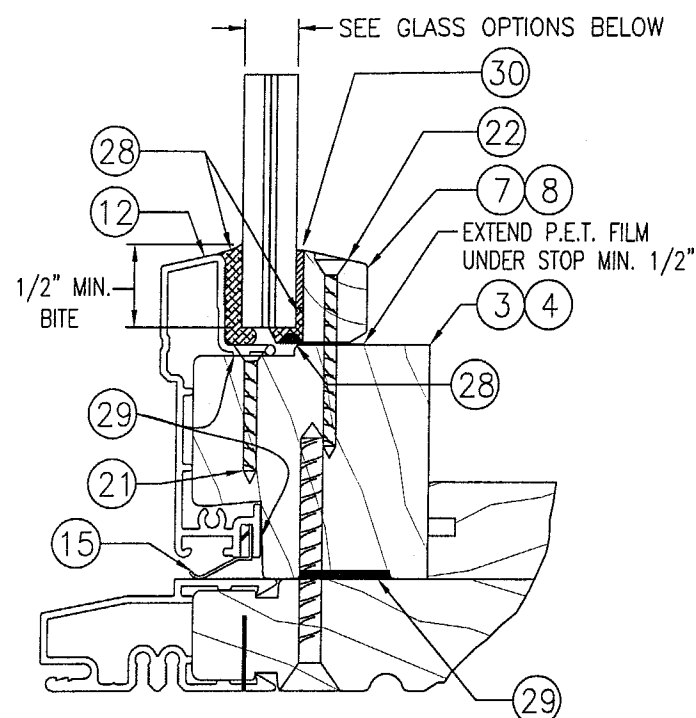
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0025.04
Expiration Date 09/20/06
By *Warren W. Schaefer*
Miami Dade Product Control
Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/13/03	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE ALUMINUM CLAD WOOD SASH GLAZED FIXED IMPACT WINDOWS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CERTIFICATION JUN 18 2003	WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO. 1226A		REV.	
SHEET NO. 3		OF 8	



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0625-04
Expiration Date 09/22/06
By William Berryman
Miami Dept. of Public Control
Division

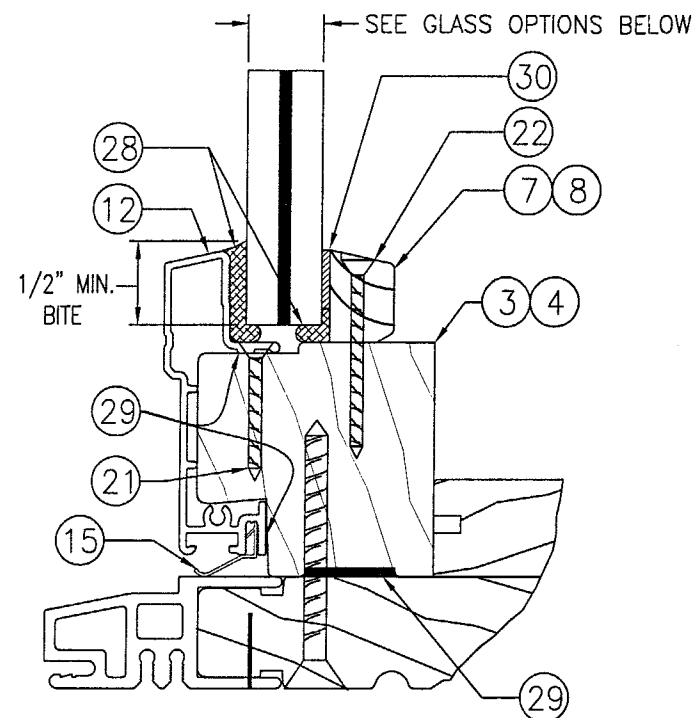
DRAWING NO. 1226A	REV.	SHEET NO. 4 OF 8	CERTIFICATION  JUN 18 2003	DRAWING TITLE ALUMINUM CLAD WOOD SASH GLAZED FIXED IMPACT WINDOWS	DRAWN BY: K.P.S. CHECKED BY: W.W.S. PLOT: 1=2 DATE: 05/13/03
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL; SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012		
NO. REVISION DESCRIPTION BY DATE					



TYPICAL GLASS & GLAZING DETAIL

SCALE: 3/4 FULL SIZE

- GLASS OPTION 1:** NEBULA SAFETY-PLUS (3/16" HS/0.06" RESIN/ 0.01" PET/0.06" RESIN/3/16" HS)
- GLASS OPTION 2:** NEBULA SAFETY-PLUS (1/4" HS/0.06" RESIN/ 0.01" PET/0.06" RESIN/1/4" HS)

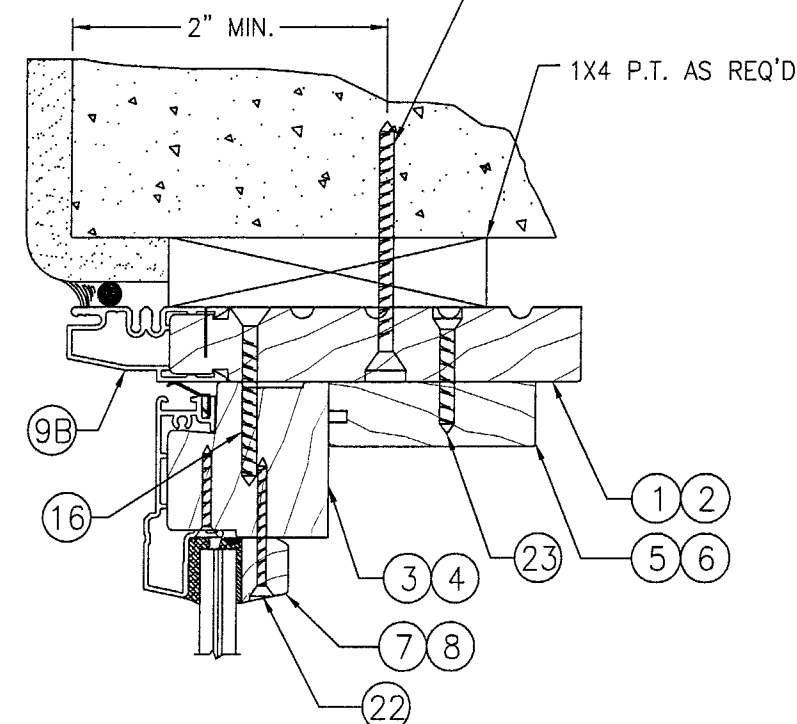


TYPICAL GLASS & GLAZING DETAIL

SCALE: 3/4 FULL SIZE

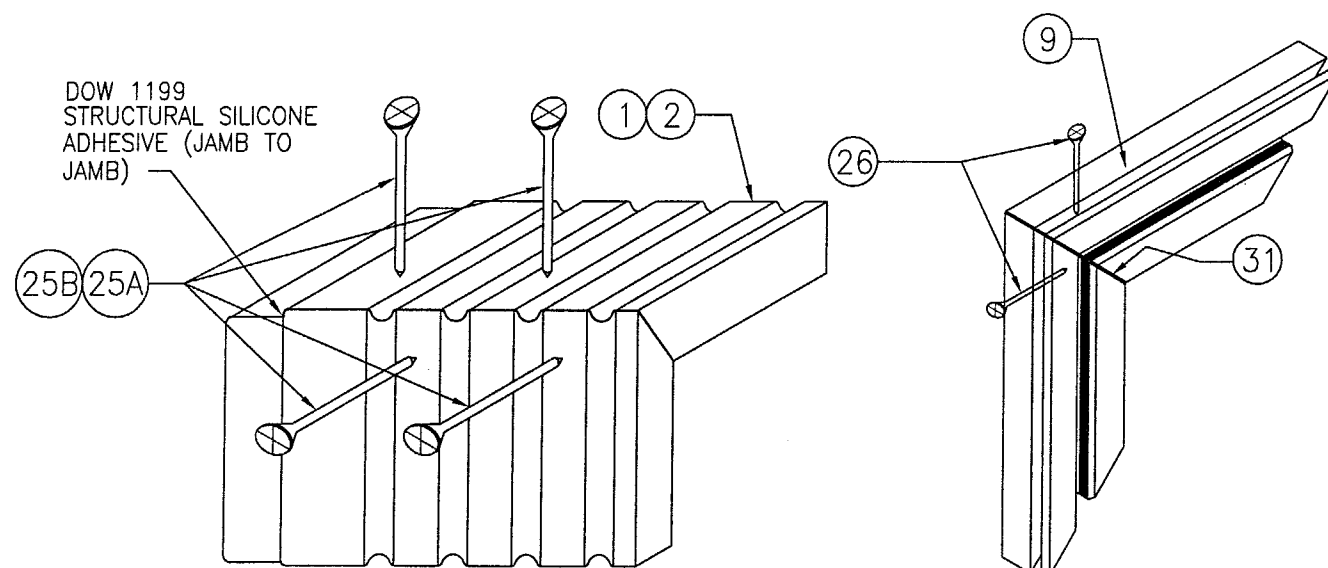
- GLASS OPTION 3:** 9/16" THICK LAMINATED GLASS WITH DUPONT SGP (1/4" HS/0.09" SGP/1/4" HS)
- GLASS OPTION 4:** 9/16" THICK LAMINATED GLASS WITH SAFLEX PVB (1/4" AN/0.09" PVB/1/4" AN)
- GLASS OPTION 5:** 3/8" THICK LAMINATED GLASS WITH SAFLEX PVB (5/32" AN/0.09" PVB/5/32" AN)

1/4" TAPCON 4" FROM CORNERS AND MAX. 12" O.C. TAPCON LENGTH AS REQUIRED FOR MIN 1 1/4" CONC. OR BLOCK EMBED



OPTIONAL JAMB DETAIL FOR DIRECT MOUNT TO CONCRETE OR BLOCK

(TYP. ALL UNITS)
SCALE: 1/2 FULL SIZE



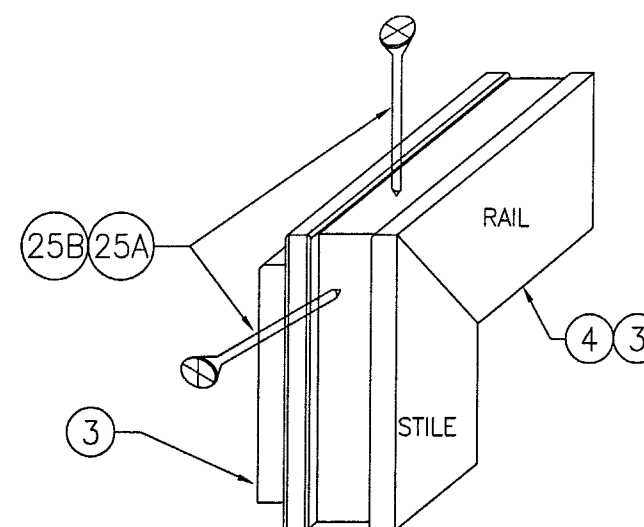
JAMB TO JAMB DETAIL

SCALE: N.T.S.

CLAD TO CLAD DETAIL

SCALE: N.T.S.

JAMB CORNER DETAILS



SASH STILE TO RAIL CORNER DETAIL

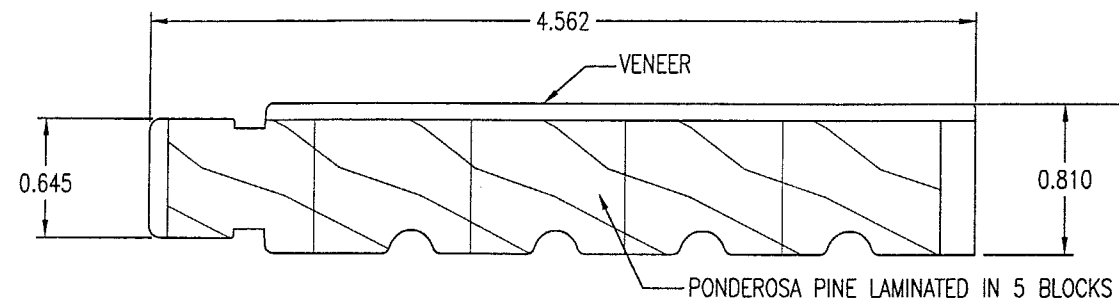
SCALE: N.T.S.

NOTE: CLAD CORNER IS MITERED & FASTENED WITH 1 NO. 6 X 1" SMS INTO SPLINE & GASKETED WITH (31) (SIMILAR TO JAMB CLAD CORNERS EXCEPT WITH ONE SCREW)

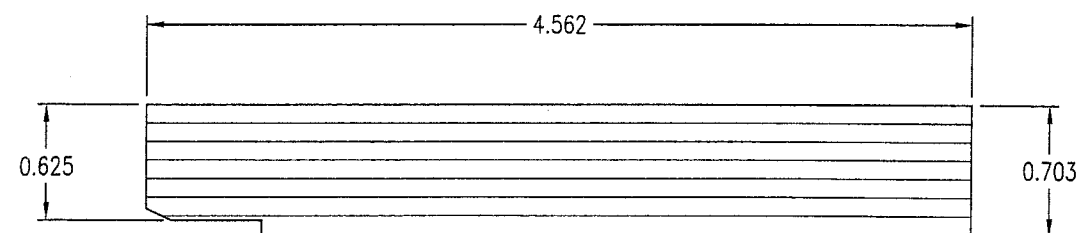
NOTE:
WOOD SASH CORNERS SECURED WITH PVA WOOD GLUE @ STILE & RAIL JOINTS IN ADDITION TO SCREWS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0625.04
Expiration Date 09/20/09
By: *Warren W. Schaeffer*
Miami Date Product Control

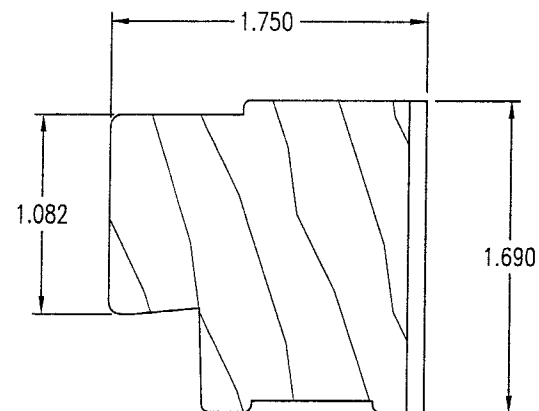
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 05/13/03
DATE	BY
REVISION DESCRIPTION	NO.
<p>DRAWING TITLE: ALUMINUM CLAD WOOD SASH GLAZED FIXED IMPACT WINDOWS</p> <p>MANUFACTURER: KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012</p> <p>CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903</p>	
CERTIFICATION JUN 18 2003	WARREN W. SCHAEFFER, P.E. P.E. NO. 44135
DRAWING NO. 1226A	REV.
SHEET NO. 5	OF 8



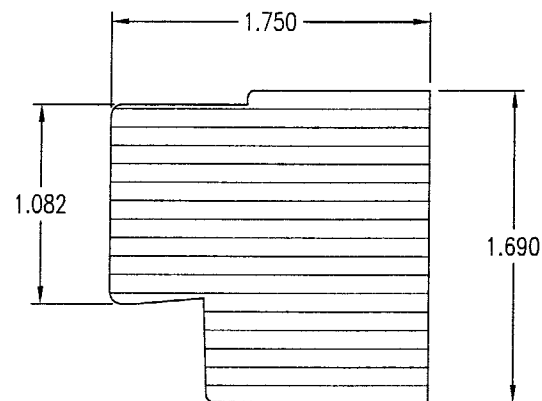
① **LINEAL WOOD FRAME JAMB**
PONDEROSA PINE



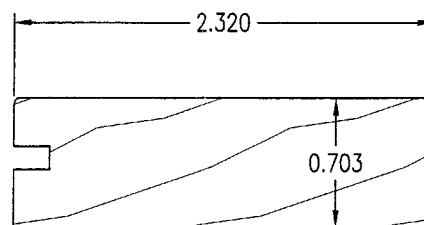
② **RADIAL WOOD FRAME JAMB**
(LAMINATED VENEER)



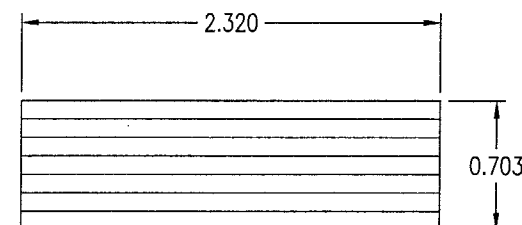
③ **LINEAL STILES & RAILS**
PONDEROSA PINE



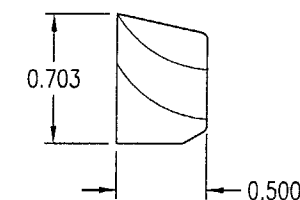
④ **RADIAL STILES & RAILS**
(LAMINATED VENEER)



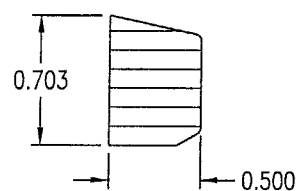
⑤ **LINEAL SASH STOP**
PONDEROSA PINE



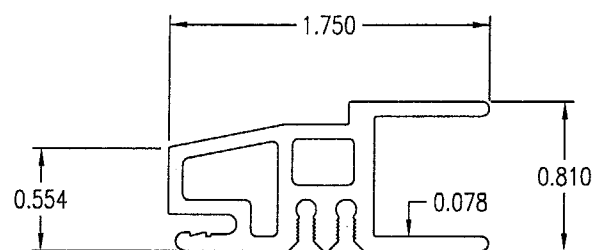
⑥ **RADIAL SASH STOP**
(LAMINATED VENEER)



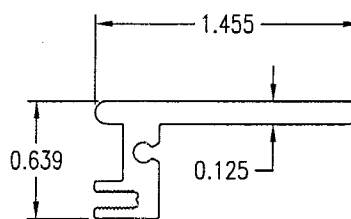
⑦ **LINEAL WOOD GLAZING STOP**
PONDEROSA PINE



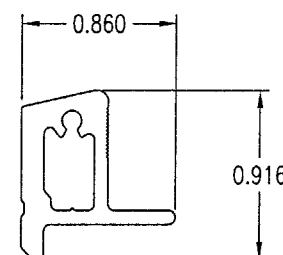
⑧ **RADIAL WOOD GLAZING STOP**
(LAMINATED VENEER)



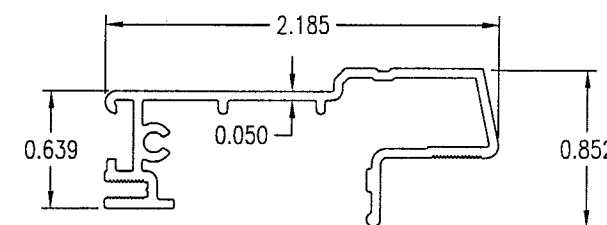
⑨ **RADIAL FRAME CLADDING**
(6063-T5 ALUMINUM)



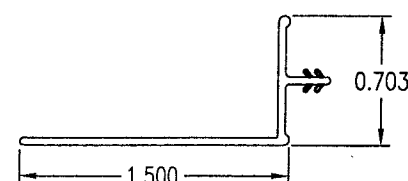
⑩ **RADIAL SASH CLADDING**
(6063-T5 ALUMINUM)



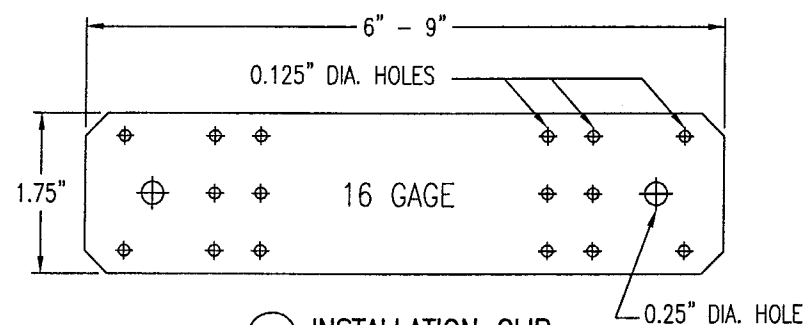
⑪ **RADIAL GLASS STOP**
(6063-T5 ALUMINUM)



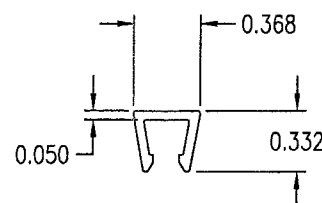
⑫ **LINEAL SASH CLADDING**
(6063-T5 ALUMINUM)



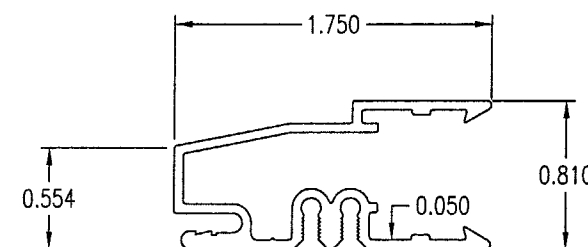
⑬ **NAILING FIN**
(VINYL)



⑭ **INSTALLATION CLIP**
(GALVANIZED STEEL)
Fy = 33 ksi MIN.



⑨A **MULLION CAP**
(6063-T5 ALUMINUM)



⑨B **LINEAL FRAME CLADDING**
(6063-T5 ALUMINUM)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0625.04
Expiration Date 09/20/06
By: *Warren W. Schaefer*
Miami Division of Building Control

DRAWING NO. 1226A		SHEET NO. 6 OF 8		CERTIFICATION		DRAWING TITLE		ALUMINUM CLAD WOOD SASH GLAZED FIXED IMPACT WINDOWS		DRAWN BY: K.P.S.		CHECKED BY: W.W.S.			
				JUN 18 2003		WARREN W. SCHAEFER, P.E. P.E. NO. 44135		PLOT: 1=1		DATE: 05/13/03					
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903				MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012				NO.		REVISION DESCRIPTION		BY		DATE	

DESIGN LOAD CAPACITY (PSF)									
WINDOW SIZE (OSM)		GLASS OPTION 1		GLASS OPTION 2 & 3		GLASS OPTION 4		GLASS OPTION 5	
MAX. SHORT SIDE	MAX. LONG SIDE	POS	NEG	POS	NEG	POS	NEG	POS	NEG
24"	36"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
24"	42"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
42"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
24"	48"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
42"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	73.5
48"		70.0	80.0	70.0	80.0	70.0	80.0	64.2	64.2
24"	54"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	79.3
42"		70.0	80.0	70.0	80.0	70.0	80.0	64.4	64.4
48"		70.0	80.0	70.0	80.0	70.0	80.0	56.8	56.8
54"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
24"	60"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	71.9
42"		70.0	80.0	70.0	80.0	70.0	80.0	57.5	57.5
48"		70.0	80.0	70.0	80.0	70.0	80.0	50.3	50.3
54"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
60"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
66"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
24"	66"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	65.8	65.8
42"		70.0	80.0	70.0	80.0	70.0	80.0	52.4	52.4
48"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
54"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
60"		70.0	80.0	70.0	80.0	70.0	76.7	-	-
66"		63.6	72.7	63.6	72.7	63.6	68.2	-	-
24"	72"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	61.5	61.5
42"		70.0	80.0	70.0	80.0	70.0	80.0	47.4	47.4
48"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
54"		70.0	80.0	70.0	80.0	70.0	79.6	-	-
60"		70.0	80.0	70.0	80.0	69.7	69.7	-	-
66"		63.6	72.7	63.6	72.7	-	-	-	-
72"		58.3	66.7	58.3	66.7	-	-	-	-

DESIGN LOAD CAPACITY (PSF)									
WINDOW SIZE (OSM)		GLASS OPTION 1		GLASS OPTION 2 & 3		GLASS OPTION 4		GLASS OPTION 5	
MAX. SHORT SIDE	MAX. LONG SIDE	POS	NEG	POS	NEG	POS	NEG	POS	NEG
24"	78"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	58.7	58.7
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
54"	84"	70.0	80.0	70.0	80.0	70.0	73.4	-	-
60"		70.0	80.0	70.0	80.0	-	-	-	-
66"		63.6	72.7	63.6	72.7	-	-	-	-
72"		58.3	66.7	58.3	66.7	-	-	-	-
24"	90"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	56.3	56.3
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
54"	96"	70.0	80.0	70.0	80.0	68.2	68.2	-	-
60"		70.0	74.3	70.0	80.0	-	-	-	-
66"		63.6	72.7	63.6	72.7	-	-	-	-
72"		58.3	66.7	58.3	66.7	-	-	-	-
24"	102"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	80.0	70.0	80.0	70.0	74.0	-	-
54"	108"	70.0	71.8	70.0	80.0	-	-	-	-
60"		63.5	63.5	70.0	80.0	-	-	-	-
66"		63.6	71.1	63.6	72.7	-	-	-	-
72"		58.3	66.7	58.3	66.7	-	-	-	-
24"	114"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
54"	120"	68.1	68.1	70.0	80.0	-	-	-	-
60"		60.0	60.0	70.0	80.0	-	-	-	-
66"		63.6	66.8	63.6	72.7	-	-	-	-
72"		63.6	66.8	63.6	72.7	-	-	-	-

DESIGN LOAD CAPACITY (PSF)									
WINDOW SIZE (OSM)		GLASS OPTION 1		GLASS OPTION 2 & 3		GLASS OPTION 4		GLASS OPTION 5	
MAX. SHORT SIDE	MAX. LONG SIDE	POS	NEG	POS	NEG	POS	NEG	POS	NEG
24"	108"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	78.6	70.0	80.0	-	-	-	-
54"	120"	64.4	64.4	70.0	80.0	-	-	-	-
60"		56.7	56.7	70.0	80.0	-	-	-	-
66"		62.0	62.0	63.6	72.7	-	-	-	-
24"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"	132"	70.0	80.0	70.0	80.0	70.0	80.0	-	-
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	-	-	-	-
48"		70.0	74.4	70.0	80.0	-	-	-	-
54"		59.7	59.7	70.0	80.0	-	-	-	-
60"	144"	51.0	51.0	70.0	80.0	-	-	-	-
30"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
36"		70.0	80.0	70.0	80.0	-	-	-	-
42"		70.0	80.0	70.0	80.0	-	-	-	-
48"	144"	70.0	71.1	70.0	80.0	-	-	-	-
54"		56.5	56.5	70.0	80.0	-	-	-	-
30"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
36"		70.0	80.0	70.0	80.0	-	-	-	-
42"	144"	70.0	80.0	70.0	80.0	-	-	-	-
48"		68.6	68.6	70.0	80.0	-	-	-	-

NOTES:

1. WINDOW SIZE DIMENSIONS SHOWN ARE MAXIMUM SIZES. SMALLER SIZES SHALL APPLY TO LOADS EQUAL TO THE NEAREST LARGER SIZE SHOWN IN TABLE.
2. IF NO LOAD IS SHOWN FOR A SPECIFIED WINDOW SIZE, THAT SIZE MAY NOT BE USED WITH THE RESPECTIVE GLASS OPTION.

NOTE: HEIGHT & WIDTH
CAN BE INTERCHANGED

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0625.04
Expiration Date 09/20/09
By *Warren W. Schaefer*
Miami Dade Product Control
Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=1	DATE: 05/13/03
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE ALUMINUM CLAD WOOD SASH GLAZED FIXED IMPACT WINDOWS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012
CERTIFICATION JUN 18 2003 <i>Warren W. Schaefer</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1226A SHEET NO. 7 OF 8

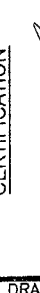
MATERIAL LIST			
PART NO.	REF. NO.	DESCRIPTION	NOTES
PARTS & EXTRUSIONS			
1	PF1010	LINEAL JAMB	SEE NOTE 1 THIS SHEET.
2	PF1231	RADIAL JAMB	LAMINATED VENEER
3	PF1454	LINEAL SASH	SEE NOTE 1 THIS SHEET.
4	PF1454	RADIAL SASH	LAMINATED VENEER
5	PF1455	LINEAL SASH STOP	SEE NOTE 1 THIS SHEET.
6	PF1455	RADIAL SASH STOP	LAMINATED VENEER
7	PF1008	LINEAL GLAZING STOP	SEE NOTE 1
8	PF1008	RADIAL GLAZING STOP	LAMINATED VENEER
9	PF1001	RADIAL FRAME CLADDING	ALUMINUM 6063-T5
9A	PMC73	MULLION CAP	ALUMINUM 6063-T5
9B	PF1002	LINEAL FRAME CLADDING	ALUMINUM 6063-T5
10	PF1018	RADIAL SASH CLADDING	ALUMINUM 6063-T5
11	PF1017	RADIAL GLASS STOP	ALUMINUM 6063-T5
12	PF1074	LINEAL SASH CLADDING	ALUMINUM 6063-T5
13	PF1214 or PF1326	VINYL NAILING FINIS	OPTIONAL
14	SK1031	GALVANIZED 16 GA. STEEL INSTALLATION CLIP	GALVANIZED STEEL, INC. (Fy = 33 KSI MIN.) 4" FROM CORNERS & 12" O.C.
15	PF1026	0.415" X 0.489" RAINSKIRT	SCHLEGEL: EXTRUDED FLEXIBLE COPOLYMER
FASTENERS			
16	-	#8 x 2" SMS SCREW (JAMB TO SASH)	4" FROM CORNERS & MAX. 10" O.C.
17	-	#8 x 5/8" PAN HEAD SMS SCREW	3 PER INSTALLATION CLIP INTO JAMB
18	-	#10 SMS SCREW WITH MINIMUM 1 3/8" EMBED INTO THE BUCK (JAMB TO BUCK)	4" FROM CORNERS & MAX. 12" O.C.
19	-	#8 x 1 1/4" SMS SCREW	2 PER CLIP INTO BUCK (1 EA. SIDE OF BUCK)
20	-	S/STL #8 x 1 1/4" SMS SCREW OR 1 5/8" DRYWALL SCREWS	4" FROM ENDS & MAX. 10 1/2" O.C. WITH FIN
21	-	#6 x 3/4" SMS SCREW	3" FROM CORNERS & 8" O.C.
21A	-	#6 x 3/4" SMS SCREW	2" FROM CORNERS & 12" O.C.
22	-	#6 x 1 5/8" SMS SCREW	3" FROM CORNERS & 8" O.C.
23	-	#8 X 1 1/4" SMS	3" FROM CORNERS & 12" O.C.
24	-	3/8" LONG STAPLE	3" FROM CORNERS & MAX. 8" O.C
25A	-	#8 x 2" SMS SCREW	4 @ EA. RECTANGULAR JAMB CORNER & 2 AT EA. RECTANGULAR SASH CORNER
25B	-	#8 x 1 1/2" SMS SCREW	3 @ EACH RADIUS JAMB CORNER & 2 AT EA. RADIAL SASH CORNER
26	-	#6 x 3/4" SMS SCREW	2 @ EA. JAMB CLAD CORNER 1 @ EA. SASH CLAD CORNER

MATERIAL LIST			
PART NO.	REF. NO.	DESCRIPTION	NOTES
SEALANTS			
28	—	DOW 995 SILICONE	FOR 1/2" GLAZING BITE
29	—	DOW 1199 STRUCTURAL SILICONE ADHESIVE	CONTINUOUS CLADDING TO JAMB & SASH
OTHER			
30	—	NORTON NORGLAZE .0625" X .437" GLAZING TAPE	POLYOLEFIN FOAM W/ ACRYLIC ADHESIVE
31	—	TREMCO 440 BUTYL TAPE GASKET	TRIM OFF AT EDGES (TYP. AT CLAD CORNERS)

ALL WOOD USED WITH TESTED UNITS IS MINIMUM GRADE 2
PONDEROSA PINE. ALTERNATE WOOD SPECIES ACCEPTABLE
WITH THIS PRODUCT ARE THE FOLLOWING MINIMUM GRADE 2
WOODS:

1. MAHOGANY
2. OAK
3. CHERRY
4. CYPRUS
5. DOUGLAS FIR
6. MAPLE
7. TEAK

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0625-04
Expiration Date 09/20/06
By Glenn B. Borne
Miami Dade Product Control
Division

DRAWING NO. 1226A	REV.	CERTIFICATION  JUN 19 2003 WARREN W. SCHAEFFER, P.E. P.E. NO. 44135	DRAWING TITLE ALUMINUM CLAD WOOD SASH FIXED IMPACT WINDOWS	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8995 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	NO. REVISION DESCRIPTION BY DATE	PLOT: 1=1	DRAWN BY: K.P.S.	CHECKED BY: W.W.S.	DATE: 05/13/03